

ABSTRACT OF THE DISCLOSURE

A point source module is provided, comprising: a Shack cube comprising a beam splitter cube with an attached spherical reference surface defining a reference arm; a test arm that is associated with transmission of optical radiation from a source to a sample; a point source of optical radiation whose emissions traverse both the reference arm and the test arm; and a detector associated with a surface of the beam splitter cube and receiving optical radiation from both the reference arm and the test arm and comprising a detector arm, an objective lens associated with the test arm, or both. Further, a method of aligning the point source module is provided, along with a method of using the point source microscope is provided. The apparatus and methods provide a compact, robust device and technique for measuring or locating optical or mechanical datum of parts that are being manufactured or assembled.